CLIPSAL

INTEGRATED SYSTEMS

NOTE #: 06-035-01

APPLICATION NOTE
SHARING INTELLIGENT SOLUTIONS

DATE: 14 March 2006

KEY WORDS:

Title:	Ceiling Sweep Fan Control Via C-Bus
Products Applicable:	Normal C-Bus relays and any unit supporting scenes

The normal control method used for ceiling sweep fans is 3 ON positions and 1 OFF, using a rotary control knob.

Control can be performed via C-Bus, using C-Bus relays in series with the capacitors supplied by the fan manufacturer, to replicate the normal switching requirement. Table 1 shows the control method used for each speed. (Note that X1 and X2 capacitor values differ between manufacturers and model of fans).

Speed	Control
HI	Relay #1, no capacitor
MED	Relay #2 in series with capacitor X1
LO	Relay #3 in series with capacitor X2

Table 1 – Control method for each speed using C-Bus

Do not switch capacitors in parallel, (causing MED speed relay and LO speed relay to be ON at the same time), as this will cause an additional speed to be created. To avoid this, program scenes to control the speed, according to the actions described in Table 2.

Scene	Actions
HI speed	HI relay ON, MED relay OFF, LO relay OFF
MED speed	HI relay OFF, MED relay ON, LO relay OFF
LO speed	HI relay OFF, MED relay OFF, LO relay ON
OFF	HI relay OFF, MED relay OFF, LO relay OFF

Table 2 – Programing scenes to control the fan speed

Important Notes

- All switching relays wired to the fan <u>MUST</u> be fed from the same incoming circuit.

- Failure to use the same circuit to feed all three relays, <u>will</u> in most cases cause damage to the fan.

- Switching variations will need to be programmed as four separate macros into a 5034NS Scene controller (HI, MED, LO, OFF). Alternatively four scenes can be used on any wall switch with scene capability.

- If you use a 5034NS, Ulti Saturn or Reflection series wall switch, be aware that they do not support infrared (IR) remote control. If you have a Touch Screen, it is recommended to store the scenes in it and remotely trigger them - providing greater flexibility.

- The 5035NIRSL Scene Controller will perform both IR remote and scene control. However, the Touch Screen is a better option.

Technical Support and Troubleshooting

For technical assistance call: 1300 722 247 (Australia)
0800 888 219 (New Zealand)

Worldwide contacts: http://www.clipsal.com/locations/
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